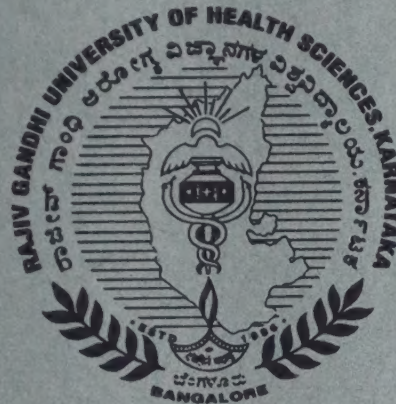


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**RAJIV GANDHI UNIVERSITY  
OF HEALTH SCIENCES  
KARNATAKA**

**BANGALORE - 560 041**



**ORDINANCE RELATING TO  
BDS COURSE**

**1997**



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OF HEALTH SCIENCES  
KARNATAKA**

**BANGALORE - 560 041**



**ORDINANCE RELATING TO  
BDS COURSE**

**1997**

RAJIV GANDHI UNIVERSITY

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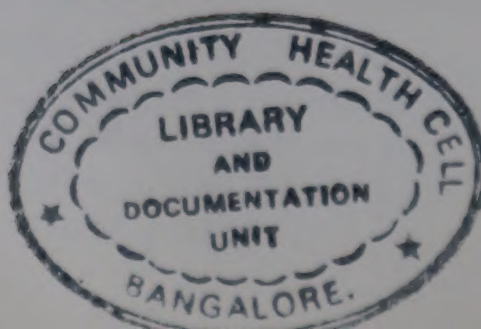


BY ORDER OF THE CHAIRMAN

BDS COURSE

MP.130

05288





# **RAJIV GANDHI UNIVERSITY OF HEALTH SCIENCES, KARNATAKA**

4th 'T' Block, Jayanagar, Bangalore - 560 041, Tel : 6637058 (PABX), Fax : 6658569  
e-Mail - VC@bngrgmdu.kar.nic.in

Ref: No. ACA/ORD-3/97-98

Date: 16-08-1997

## **NOTIFICATION**

Sub : Ordinances in the matter of admission to courses of study and scheme of examination relating to B.D.S. courses.

Ref : Minutes of the Meeting of the Syndicate held on 7th August 1997.

- - -

Under section 35(2) of Rajiv Gandhi University of Health Sciences Act, 1994 an ordinance 1997, governing Admission course of study, and scheme of examination relating to B.D.S course as approved by the Syndicate at the Meeting referred to above is hereby notified as given in the Schedule here to appended.

The above ordinance relating to B.D.S. course shall come into force from the academic year 1997-98.

By Order

Sd/-

Registrar.

To,  
The Principal of all  
Colleges offering B.D.S.  
course.





# **RAJIV GANDHI UNIVERSITY OF HEALTH SCIENCES, KARNATAKA**

4th 'T' Block, Jayanagar, Bangalore - 560 041

## **ORDINANCE RELATING TO BDS / COURSE**

### **ELIGIBILITY FOR ADMISSION :**

#### **(i) Qualification :**

- (a) Candidates who have passed the two years Pre-University Examination of Pre-University Board of the Karnataka with Physics Chemistry and Biology as Optional subjects are eligible for admission to the first year.
- (b) The candidate shall have obtained not less than 50% of the aggregate marks in Physics, Chemistry and Biology at the qualifying examination.

Scheduled Castes and Scheduled Tribes students may be given a relaxation of 10% in the aggregate marks required for eligibility.

#### **(ii) Age requirement**

A candidate seeking admission to the Dental course, must be "17 Plus" years old on or before 31st December of the year in which he/she seeks admission.

### **II. LENGTH OF THE COURSE:**

Four academic years, and twelve months of compulsory paid rotatory internship, thus making it a five years course.

### **III. ATTENDANCE REQUIREMENTS, PROGRESS AND CONDUCT:**

Attendance requirements shall be as follows:-

- a) 75% in Theory and 75% in Practical/Clinicals in each subject in each year.
- b) In case of subject in which the instructional programme extends through more than one academic year and hence there is no University Examination in the subject every year (i.e. non-exam. going subjects), the attendance requirement shall not be less than 70% in Lectures/Practical/Clinical. However, at the time of appearing for the professional examination in the subject the candidate should satisfy the condition (a) above.
- c) The failed candidates shall put up a minimum of 75% attendance in failed or detained subjects.



The candidates should submit through the Principal a satisfactory report of their attendance and conduct and progress and assignments before appearing for any examination,

## HOURS OF INSTRUCTIONS WORK:

TABLE NO.1

Sl. No.	Subject	Hours of Lecturers	Total Pract-cal Hours	available Clinical Hours	Total
1.	Human anatomy including Embryology & Histology	70	130		200
2.	Human Physiology and Biochemistry	50	40		145
		25	30		145
3.	Dental Materials	35	30		65
4.	General Pathology and Microbiology	45	60		
		30	60		195
5.	General & Dental Pharmacology	40	20		60
6.	Human Oral Anatomy, including Embryology, Histology & Physiology	40	90		130
7.	General Medicine	40	90	(90)	130
8.	General Surgery	40	90	(90)	130
9.	Oral Pathology & Microbiology	50	90	-	130
10.	Oral Medicine & Radiology	40	90	(90)	13
11.	Orthodontics	40	150	(120)	190
12.	Pedodontics	40	150	(100)	190
13.	Conservative Dentistry including Endodontics	70	600	(360)	670
14.	Prosthodontics & Crowns Bridge	100	600	(540)	1000
15.	Oral Surgery,	60	220	(150)	280
16.	Preventive & Community Dentistry	30	100		130
17.	Periodontics	45	205	(150)	250
Total		890	3145	(1690)	4035



**V. TITLES OF PAPERS/PRACTICALS OFFERED FOR THE COURSE**  
(Teaching Hours per week for each Paper/Practical and Syllabus is included separately at the end).

**FIRST YEAR**

**LECTURES AND PRACTICALS**

- i) General Human Anatomy including Embryology and Histology
- ii) General Human Physiology and Biochemistry
- iii) Oral Anatomy, Histology and Physiology and Embryology
- iv) Dental Materials
- v) Preclinical Prosthetic Dentistry.
- vi) Preclinical Conservative Dentistry.

**SECOND YEAR**

**LECTURES AND PRACTICALS**

- i) General and Dental Pharmacology
- ii) General Pathology and Microbiology
- iii) Human Oral Anatomy, Physiology and Embryology including Histology
- iv) Preclinical Prosthetic Dentistry
- v) Preclinical Conservative Dentistry

**THIRD YEAR**

**LECTURES, PRACTICALS AND CLINICAL TRAINING:**

- i) General Medicine
- ii) General Surgery
- iii) Dental and Oral Pathology & Microbiology
- iv) Conservative Dentistry and Endodontics
- v) Oral Surgery
- vi) Oral Medicine & Radiology
- vii) Orthodontics
- viii) Pedodontics
- ix) Community Dentistry
- x) Periodontics
- xi) Prosthodontics and Crown & Bridge.



## **FOURTH YEAR**

### **A PART - I**

#### **First Term**

#### **LECTURES, PRACTICALS AND CLINICAL TRAINING IN**

- i) Oral Surgery, Local Anaesthesia and General Anaesthesia
- ii) Conservative Dentistry and Endodontics
- iii) Prosthodontics and Crown & Bridge
- iv) Periodontics
- v) Orthodontics
- vi) Oral Medicine and Radiology, Dental Jurisprudence and Ethics
- vii) Pedodontics
- viii) Community and Preventive Dentistry

### **B) PART - II**

#### **Second Term:**

#### **Lectures/Practicals/Clinical Training In**

- i) Prosthodontics and Crown & Bridge
- ii) Conservative Dentistry and Endodontics
- iii) Oral Surgery
- iv) Periodontics.

## **VI SCHEME OF EXAMINATION (WITH TITLES OF PAPERS AND PRACTICALS AND MAX.MARKS AND DURATION FOR EACH PAPER/ PRACTICAL) SUBJECTS IN PROFESSIONAL EXAMINATIONS.**

The scheme of Examination of B.D.S. course shall be divided into 5 professional examinations, viz., I.B.D.S. Examination at the end of 1st academic year, II at the end of 2nd academic year, III at the end of 3rd academic year and IV B.D.S. Part-I examination at the end of first term of Final Year and Part-II Examination at the end of 4th academic year.

University examination are hold twice in year, commencing in the months of July and January.

The examination shall be open to a candidate who satisfied the requirement of attendance, progress and conduct as stipulated by the University.

Certificate to the above effect should be produced from the Head of the Institution by the candidate along with the application for examination and the prescribed fee.



## **I B.D.S. EXAMINATION:**

1. General Human Anatomy including Embryology and Histology
2. General Human Physiology and Biochemistry
3. Dental Materials

## **II B.D.S. EXAMINATION:**

Regulations are the same as far as the I year B.D.S. Examination. Candidate who has successfully completed the I B.D.S. Examination, can only appear for the II B.D.S. Examination.

1. General Pathology and Microbiology
2. General and Dental Pharmacology and Therapeutics
3. Human Oral Anatomy including Embryology, Histology and Oral Physiology
4. Pre-clinical Prosthetic Dentistry
5. Pre-clinical Conservative Dentistry

## **III B.D.S. EXAMINATION**

Regulations are the same as for the II B.D.S. Examination. A candidate who has successfully completed the II B.D.S. Examination can only appear for the III B.D.S. Examination.

1. General Medicine
2. General Surgery
3. Oral Pathology & Microbiology

## **FINAL B.D.S. EXAMINATION**

Regulations are the same as the III B.D.S. Examination. A candidate who has not successfully completed III B.D.S. Examination cannot appear for the Final B.D.S. Part I Examination.

Final year is divided into two parts. The students will take up part-I subjects at the end of first six months and Part-II subjects at the end of the year provided they pass all the Part-I subjects in earlier examination.

- |            |                                       |
|------------|---------------------------------------|
| Part - I : | 1. Oral Medicine and Radiology        |
|            | 2. Orthodontics                       |
|            | 3. Pedodontics                        |
|            | 4. Preventive and Community Dentistry |



- Part - II :
5. Prosthodontics and Crown & Bridge
  6. Conservative Dentistry including Endodontics
  7. Oral Surgery
  8. Periodontics

It is recommended to have a separate examination for each of the subjects.

### **I. INTERNSHIP :**

Every candidate will be required after passing the final B.D.S. Examination to undergo one year paid rotating Internship in the same institution or any other recognised dental college.

### **II. DISTRIBUTION OF MARKS, METHOD OF EXAMINATION AND RESULTS**

- (A) i. Theory(written) paper consists of Section 'A' and Section 'B'. Each section consists of the following type of Questions in all the subjects except in (a)General Physiology, Biochemistry and (b) General Pathology and Microbiology.

#### **SECTION 'A'**

- a) One Essay type question carrying 10 marks.
- b) Five short notes type questions carrying 5 marks each

#### **SECTION 'B'**

- a) One Essay type question carrying 10 marks.
- b) Five short notes type questions carrying 5 marks each

- Note: 1) In the subject of General Human Physiology & Biochemistry Section 'A' (Gen.Physiology) shall contain one essay type Question carrying 10 marks and second Question containing seven short notes carrying five marks each. Section 'B' (Biochemistry) shall contain one essay type Question of 10 marks and second Question containing three short notes of five marks each.
- 2) In the subject of Gen.Pathology, Section 'A' (Gen.Pathology) shall contain one essay question carrying 10 marks and second question shall contain seven shortnotes carrying five marks each. Section 'B' (Microbiology) shall contain one essay question carrying 10 marks and second question shall contain 3 short notes carrying five marks each.
- ii) There is no provision for multiple choice Questions
  - iii) There is no choice in short note type questions
  - iv) Theory (written) paper will be of 3 hours durations and practical/clinical examination shall not exceed three hours as a routine.
  - v) Internal assessment marks are as given in the scheme of Examination."
  - vi) No Semester system.



(B) Each subjects from I year to the Final year will have a Maximum of 200 Marks and distribution is as follows.

		Univer/ sity paper	Theory & Orals		Total	Uni ver sity	Practicals/Clinicals		Grand Total
			Viva	Inter nal assess ment			Internal assess ment	Total	
<b>I B.D.S.</b>									
1	General Human Anatomy including Embryology & Histology	70	20	10	100	90	10	100	200
2	General Human Physiology and Bio Chemistry	70	20	10	100	90	10	100	200
3	Dental Materials	70	20	10	100	90	10	100	200
<b>II B.D.S.</b>									
1	General and Dental Pharmacology	70	20	10	100	90	10	100	200
2	General Pathology and Microbiology	70	20	10	100	90	10	100	200
3	Human Oral Anatomy, Physiology and Embryology including Histology	70	20	10	100	90	10	100	200
*4	Pre-Clinical Prosthetic Dentistry	-	20+	-	-	60	20	100	200
*5	Pre-Clinical Conservative Dentistry	-	20+	-	-	60	20	100	100
* No Theory Paper + Practical Vivavoce									
<b>III B.D.S.</b>									
1	General Medicine	70	20	10	100	90	10	100	200
2	General Surgery	70	20	10	100	90	10	100	200
3	Dental Oral Pathology & Microbiology	70	20	10	100	90	10	100	200
<b>Final B.D.S.- Part I</b>									
1	Oral Medicine and Radiology	70	20	10	100	90	10	100	200
2	Orthodontics	70	20	10	100	90	10	100	200
3	Pedodontics	70	20	10	100	90	10	100	200
4	Community Dentistry.	70	20	10	100	90	10	100	200



**Part - II**

5	Prosthodontics and Crown & Bridge	70	20	10	100	90	10	100	200
6	Conservative Dentistry including endodontics	70	20	10	100	90	10	100	200
7	Oral Surgery	70	20	10	100	90	10	100	200
8	Periodontics	70	20	10	100	90	10	100	200

**PROVISIONS OF ORDINANCE OF SUBJECTS IN I, II AND III B.D.S.**

A candidate who has failed in any one subject only may be permitted to go to next higher B.D.S. Class and may be allowed to pass the subject in subsequent examinations. However, he/she has to complete such an examination by a pass in that subject before he/she is allowed to take the next higher B.D.S. Class examination.

**RESULTS:**

1. A candidate shall be declared to have passed the Examination if he/she:-
  - (a) Secures a minimum of 50% marks in University conducted Theory and Viva Voce put together and further 50% in aggregate i.e., University conducted - Theory and Viva Voce, and Internal Assessment put together.
  - (b) 50% marks in Practical / Clinical proper and 50% in aggregate i.e. Practical / Clinical and Internal Assessment put together,
  - (c) In case of Pre-clinical Prosthetic Density and Pre-Clinical Conservative Density in II B.D.S., Minimum for pass, is 50% of Marks in Practical and Viva-Voce put together in University Examination and 50% of marks in aggregate including Internal Assessment.
2. Successful candidates who obtain 65% of the total marks or more shall be declared to have passed the examination in First Class, the names of such candidates be placed in order to merit. Other successful candidates will be placed in Second Class in Alphabetical order.

Those obtaining 75% or more of the total marks shall be declared to have passed the subject with distinction.



3. Only those candidates who pass the whole examination in the I attempt will be eligible for distinction and class.
4. A candidate who has passed in any one subject need not appear again in that subject in any subsequent examination.

### **DECLARATION OF RESULTS:**

The declaration of the results will be done by the University of Health Sciences immediately after the completion of the programme of Examination so that atleast 5 months of instructional programme can be imparted to the student in each term before the commencement of the next University Examination.

### **FIELD PROGRAMME IN COMMUNITY DENTISTRY:**

As a part of community dentistry programme, the students in the Clinical years will have to attend the various dental camps/field programme as a part fulfilment of requirements of BDS examination to the satisfaction of the head of the Institute.

### **INTERNSHIP :**

Compulsory 12 months paid Internship of which minimum of 3 months in rural areas in collaboration with Department of preventive and Social Dentistry is required. The Bachelor Degree in Dental Surgery should be conferred by the Rajiv Gandhi Health University only after successful completion of 12 months Internship.

### **MISCELLANEOUS:**

#### **A. Migration/Transfer of Students:**

- a. A student studying in a recognised Dental College may be allowed to migrate/transfer to another recognised Dental College under another/same University.
- b. The migration/transfer can be allowed by the University concerned within one month after the announcement of results of I BDS examination.
- c. The number of students migrating/transferring from one Dental College to another Dental College during one year will be kept to the minimum but should not exceed the limit of 5% of its intake subject to a maximum of 5 students in any one Dental College in one year.
- d. Cases not covered under the above regulations, may be referred to the Dental Council for consideration on individual merits.
- e. An intimation about the admission of migrated/transferred students into any dental college should be sent to the Dental Council.



Note: In cases where the candidate has already completed subject(s) who seeks admission to this university, exemption in subject (s) will be given after admitting the student to the particular year.

**c. Re-Admission of candidates who discontinued the course:**

A candidate who discontinues the course during the academic year is eligible for re-admission subject to the condition:

1. Provision for re-admission is only once during the entire course.
2. He/She should seek readmission within three years from the date of discontinuation of the course.
3. He/She should pay the prescribed fees for the year for which he/she seeks admission and cannot claim readmission on the strength of fees paid earlier.
4. If the candidate discontinues after University Examination he/she should reappear for the subjects in which he/she failed before seeking admission to the next higher class by paying examination fee etc.,
5. He/She should put in two terms of attendance in the class for which he/she seeks readmission before appearing for the University Examination.



## **SYLLABUS I YEAR B.D.S.**

### **PAPER 1: HUMAN ANATOMY INCLUDING EMBRYOLOGY AND HISTOLOGY**

1. Introduction
2. Detailed Anatomy and osteology of Head and Neck.
3. Gross Anatomy of Thorax, Abdomen, and Extremities.
4. Embryology of Head, Neck with emphasis on development of Face, Jaws, Tongue, palates, salivary glands, pharyngeal arches and pouches. Lymphatic and Blood Vessel system. G.I. system.
5. Paranasal air sinuses.
  - (a) Gross Anatomy of the brain;
  - (b) Study of Cranial nerves - in detail extra cranial course 5th, 7th and 9th nerves and upper Cervical nerves.
6. Genetics: Fundamentals of Genetics.
7. Anthropology: General Principles.
8. Histology:

### **HISTOLOGY**

A course of 30 lectures - demonstrations and practicals covering the following:-

1. Epithelium including gland and of Gastro-intestinal tract.
2. Muscle.
3. Periosteum.
4. Bone.
5. Cartilage.
6. Adipose tissue.
7. Fibrous tissue.
8. Elastic tissue.
9. Lymph tissue.
10. Blood.
11. Blood Vessels.
12. Nerves.
13. Lung.
14. Kidney.



15. Spleen-liver-thymus-pancreas.

16. Endocrine glands.

Dissection of Head and neck excluding opening of skull and demonstrations of wet and dry specimens including brain.

Lectures

40 hours

Dissection and Practical Demonstrations

130 hours

Total 170 hours.

### **LIST OF BOOKS RECOMMENDED FOR READING AND REFERENCE**

1. G.J. Romanes, Cunningham's manual of Practical 15th Ed. Vol. III, Head & Neck volume. Anatomy, Oxford, Oxford university press, 1996.
2. John V Basmajian, Grants Method of Anatomy, 11th Ed., Battimore, Williams and Wilkins, 1989.
3. Peter L Williams, Gray's Anatomy, 38th Ed., London, ELBS with Chrchill livingstone, 1995.



# **I YEAR B.D.S**

## **PAPER 2: HUMAN PHYSIOLOGY AND BIOCHEMISTRY**

### **THEORY:**

Introduction to Physiology - The cell, the components of the cell and their functions. Tissues of the body:- Function of epithelial tissues, glandular tissues, connective tissue and other tissues.

### **BLOOD:**

Fundamentals of muscle nerve physiology composition and function of RBC - variations in number in physiological and pathological states - life span and development of RBC. Blood volume, methods of measurement and variation.

### **HAEMOGLOBIN:**

Basic Chemistry and fate of Hb. Blood groups. WBC types, number, variations, functions, formation, circulation. Functions of lymph, Physiology of clotting.

### **CARDIO-VASCULAR SYSTEM:**

Basic haemodynamic principles, arterial blood pressure and factors affecting it. The structure and physiology properties of cardiac muscle. Origin and conduction of heart beat. Cardiac cycle, heart sounds, ECG. Regulation of heart's action. Vasomotor system and its regulation - physiology of shock.

### **RESPIRATION:**

Mechanics of respiration. Sub-division of lung air.

Transport of respiratory gases in blood. Anoxia - types and physiological changes in artificial respiration.

### **EXCRETION:**

Urine - volume, normal and abnormal constituents. Mechanism of urine formation.

### **DIGESTION:**

Digestion in the mouth, digestion in the stomach and intestines, enzymes of the gastrointestinal tract and their functions. Movements of the gastro-intestinal tract. Physiology of liver, pancreas, absorption and assimilation of food.

### **ENDOCRINES:**

Thyroid - Iodine metabolism - functions of thyroid gland, Hyper and hypofunctioning of thyroid.

**Adrenal Cortex** - Secretion of the cortical cells. Actions of glucocorticoids and mineralocorticoids, hyper and hypo functions of adrenal cortex. Adrenaline and non-adrenaline action on various system.

**Pituitary gland** - Hormones, actions, abnormal functions of pituitary gland. Physiology posterior Diabetes insipidus.



**Parathyroid** - Actions of parathormone and calcium metabolism.

### **REPRODUCTION:**

Ovary - Ovarian hormone - their actions. Menstrual cycle, pregnancy, hormonal changes in pregnancy - Test for pregnancy. Functions of testes, actions of Testosterone. Physiological basis of Family Planning Methods.

### **CENTRAL NERVOUS SYSTEM:**

Reflex action, spinal cord, conditional reflex, ascending and descending tracts, cerebral cortex, various areas and functions of Cerebellum.

### **CEREBELLUM:**

Physiology of thalamus and hypothalamus, autonomic nervous system. Cerebrospinal fluid: Fundamental knowledge of C.N.S. and special senses - Regulations of body temperature.

### **SPECIAL SENSES:**

Fundamental knowledge of vision, hearing, taste and smell.

### **NUTRITION:**

General metabolism, principles of calorimetry, Basal Metabolic rate Metabolism of proteins, fats and carbohydrates. Vitamins - Sources, requirement and actions. Basic principles of dietetics.

### **BIO CHEMISTRY:**

## **BIOCHEMISTRY**

The course should provide the students with a sound knowledge on concepts of Bio-chemistry which are applied to Dental Sciences. The students should be conversant with the principles and clinical application of Bio-chemistry - the structure and properties of amino-acids, peptides and proteins, an introduction to the nature of enzymes, and enzymatic reactions, mineral metabolism, whole body metabolism, biological carbohydrates and fats.

### **PHYSIOLOGY PRACTICALS:**

1. Enumeration of Red blood cells.
2. Enumeration of white blood cells & Differential count.
3. Determination of haemoglobin.
4. Determination of blood groups.
5. Determination of Pulse and blood pressure.
6. Determination of bleeding time, and clotting time.

### **DEMONSTRATIONS:**

1. Determination of packed cell volume.



2. Clinical examination of chest.
3. Properties of excitable tissue.
4. Activity of frog's heart and effects of vagus stimulation and of atropine and adrenaline.
5. Perfusion of frog's heart effects on Na, Ca & K ions.
6. Demonstration of deep and superficial reflexes.

### **BIOCHEMISTRY PRACTICALS :**

1. Reactions of carbohydrates proteins, fats, bile, salts, bile pigments.
2. Gastric analysis.
3. Pathological constituents of urine - detection and estimation of reducing sugars.

Lectures	-	50 plus 25 = 75	Total - 145
Practical	-	40 plus 30 = 70	

### **LIST OF BOOKS RECOMMENDED FOR READING AND REFERENCE**

1. Guyton, Text Book of Medical Physiology. 8th Ed. Philadelphia, W.B. Saunders 1991.
  2. Cyril A Keele, Samson's wrights applied physiology 13th Ed., Delhi Oxford university press 1986.
  3. John B.West. Best and Taylor's physiological Basis of Medical Practice, 11th Ed., Baltimore Williams and Wilkins 1981.
  4. AVSS Rama Rao, Text Book of Biochemistry for Medical Students 5th Ed. New Delhi 1994.
  5. Ganong: Review of Medical Physiology 18th Ed. Printice Hall International 1997.
-



# I YEAR B.D.S

## PAPER 3: DENTAL MATERIALS

Lectures: 35 hours. Practicals & Demonstration = 30

1. Introduction:  
Aims and scope of the science of dental materials.
2. Structure and behaviour of Matter.
3. Importance physical properties applicable to Dental Materials including their biological consideration.
4. Gypsum products used in dentistry including casting investment materials with or without gypsum binder.
5. Impression materials used in dentistry including duplicating materials.
6. Synthetic resins used in dentistry:-
  - a) General properties and physical characteristics.
  - b) Resins as denture base materials, repair and reline materials, soft liners, tissue conditioners.
  - c) Resins as restorative materials: unfilled and filled resin restorative materials, tissue sealant.
  - d) Direct-bonding cement materials.
7. Metals and alloys: Their structure and behaviour, some important physical properties.
  - a) Dental amalgum alloys:
  - b) Gold foil:
  - c) Dental casting gold alloys:
  - d) Stainless steel, chrome-cobalt alloys.
8. Dental waxes including inlay casting wax.
9. Gold inlay casting procedures:  
Preparation of the die - wax pattern, spruing, investing-control of shrinkage compensation. Wax elimination - casting machines, casting, defects in castings.
10. Welding and soldering - materials used.
11. Dental Cements: Classification, composition, manipulation, properties and uses: Zinc cements, Copper cements, Zinc-oxide eugenol cements, silicate cement, cavity liners, cavity varnishers, Resin cements.

12. Dental porcelain including porcelain fused to metal. Porcelain Furance and fusing.
13. Mechanics of tooth cutting. Burs and points.
14. Abrasives and polishing agents.
15. Die & counter die materials including electro-forming & Electro-polishing

Practicals & Demonstrations to be arranged in the manipulation of the more common materials.

#### **LIST OF BOOKS RECOMMENDED FOR READING AND REFERENCE**

1. Kenneth J. Anusavice , Phillips Science of Dental Materials. Tenth Edision, W.B. Saunders Company 1996.



## II YEAR B.D.S.

### PAPER 1: GENERAL PATHOLOGY AND MICROBIOLOGY

Introduction to Pathology as a scientific study of disease, and some techniques used in the same. Causes of disease with special reference to our prevailing conditions.

Cellular structure and Metabolism.

Disturbances in Metabolism of Cells.

Retrogressive changes-Degenerations, Necrosis & Gangrene, Amyloidosis, Lipidosis and disorders of Pigmentation, calcification.

Inflammation - Acute and chronic inflammation. Repair with special emphasis on repair of bones, wounds and the effects of modern treatment on repair.

Hypersensitivity and Allergic.

Haemorrhage, shock, reaction of body to injury. Circulatory disturbances and Hypertension. pathology of Bacterial infections with reference to the common diseases prevalent in our country, e.g. Pyogenic infections Enteric fever, Toxemias, Tuberculosis, Leprosy, Syphilis and some examples of epidemic infections of public health interest and hospital infections. Common diseases of the bone. Injuries due to chemical and physical agents including ionising radiations. Disturbances of nutrition with special reference to Indian conditions. Metabolic disorders, e.g. Rickets, Scurvy, Diabetes Mellitus, etc. General biology of Tumours, spread of malignant tumours.

A course of lectures, lecture demonstrations and practicals in clinical pathology comprising of Anaemia and their laboratory investigations, blood disorders including Leukemias, bleeding disorders and their investigations. Laboratory investigations commonly required by Dental Surgeons.

Lecturers	-	15 hours.
Practicals and demonstrations	-	60 hours.

### MICROBIOLOGY

A course of lectures, Lecture demonstrations and practicals in general Bacteriology and elementary virology, mycology and parasitology.

Introduction to Bacteriology with special reference to Medical and Dental Bacteriology including public health and preventive aspects of infection and infectious diseases.

Pyæmia

## LIST OF BOOKS RECOMMENDED FOR READING AND REFERENCE

### GENERAL PATHOLOGY

- 1) A.C. Ritchie, Boyd's Text Book of Pathology, 9th Edition, Vol. I & II, Philadelphia, Lea and Febiger 1990.
- 2) Cotran Kumar Robbins Robbins Pathologic basis of Disease, 4th Edition, Philadelphia, W.B. Saunders 1989,
- 3) John M Issac Andersons Pathology ninth (9th Edition) Volume I & II, St. Louis, C.V. Mosby company 1990.
- 4) Frank Netter, de Grauch's clinical haematology in medical practice 5th Edition Delhi Oxford University Press 1994.
- 5) Ananthanaryan R and Jayaram Paniker C.K. Text book of Microbiology 4th Edition Madras Orient Longman, 1994.

### GENERAL MICROBIOLOGY

1.	Fair brother's text book of Bacteriology	-	Reading
2.	Bacteriology & Immunology for students of medicine -	Bigger's	Reading
3.	Medical Bacteriology	N.C. Dey	Reading
4.	Text book of Microbiology	R. Ananthanarayan & C.K. Jayaram Panicker	Reading
5.	Bacteriology for Dental students	T.H. Merville & G.L. Slack	Reference
6.	Bacteriology for students of Dental Surgery	R.B. Lucas & Ivor R.H. Kramer.	Reference
7.	Oral Microbiology & Infections Disease	Burnett & Scharp	Reference



## II YEAR B.D.S

### PAPER 2: GENERAL AND DENTAL PHARMACOLOGY

#### LECTURES:

#### I. General Pharmacology:

1. General principles of pharmacology; sources and nature of drugs dosage forms; prescription writing; pharmacol (absorption, distribution, metabolism and excretion of drugs), mode of action of drugs, factors modifying drug response, adverse drug reactions; drug interactions.
2. CNS drugs; General anaesthetics, hypnotics, analgesics psychotropic drugs, anti-epileptics muscle relaxants, analeptics, local anaesthetics.
3. Autonomic drugs; sympathomimetics, antiadrenergic drug parasympothomimetics, parasympatholytics, histamine and antihistaminics.
4. Cardiovascular drugs; Cardiac stimulants and antiarrhythmic drugs; antihypertensive drugs, vasopressor agents and treatment of shock.
5. Drugs acting on blood: Coagulants and anticoagulants, hematinics.
6. G.I.T. Drugs; Purgatives, anti-diarrhoeal, antacids, anti-emetics.
7. Endocrines; Emphasis on treatment of Diabetes and adrenal cortical steroids.
8. Chemotherapy: Sulfonamides and antibiotics, chemotherapy of tuberculosis, leprosy and malignancy.
9. Vitamins.
10. Miscellaneous drug; such as diuretics, heavy metal antagonists (B.A.L. and E.D.T.A.) etc.

#### II. Dental pharmacology

1. Anti-septics, astringents, obtundents, mummifying agents, bleaching agents, styptics, disclosing, agents, dentifrices and mouth washes.
2. Treatment of common oral conditions.

Practicals and Demonstrations; To familiarise the student with the methodology: prescription writing and dispensing.

Lectures	..	40	
Practicals & Demonstrations	..	20	Total 60 hours.

## **GENERAL & DENTAL PHARMACOLOGY**

### **LIST OF BOOKS RECOMMENDED FOR READING AND REFERENCE**

1. R.S. Satoskar, Kale Bhandarkar's Pharmacology and Pharmacolherapentics, 10th Edition, Bombay popular Prakashan 1991.
2. Bertam G. Katzung, Basic and clinical pharmacology 6th ed. Appleton & Lange 1997
3. Laurence D.R. , Clinical Pharmacology 8th ed. Churchill Livingstone 1997
4. Satoskar R.S. & Bhandarkar S.D. , Pharmacology and Pharmacotherapeutics part I & II, 13th ed. Popular Prakashan Bombay 1993
5. Tripathi K.D. , Essentials of Medical Pharmacology 3rd ed Jaypee Brothers 1994



## **II YEAR B.D.S**

### **PAPER 3: HUMAN ORAL DENTAL ANATOMY AND ORAL PHYSIOLOGY AND EMBRYOLOGY INCLUDING HISTOLOGY**

#### **INTRODUCTION:**

Development and growth of jaws. Development of the teeth and surrounding structures and calcifications (including theories) of hard tissues. Microscopic Anatomy of hard and soft tissue of the tooth and surrounding structures oral mucous membrane, the lips, tongue, floor of the mouth, palate and the salivary glands.

Eruption of shedding of teeth.

Morphology of teeth Occlusion.

Saliva, Calcium metabolism. Mastication and deglutition.

Age changes in teeth and surrounding structures. Clinical consideration where applicable.

#### **PRACTICALS/DEMONSTRATIONS:**

1. Demonstration of preparation of dental tissue for microscopic examination. Ground and stained sections.
2. Microscopic study of normal oral and Dental tissues.
3. Microscopic study and identification of teeth.
4. Tooth carving.

Lectures - 40 hours

Practicals - 90 hours

#### **LIST OF BOOKS RECOMMENDED FOR READING AND REFERENCE**

1. S.N. Bhaskar, Orban's oral Histology & Embryology Tenth edition, CBS Publishers & distributors, Delhi.
2. Major M Ash, Wheeler's Dental Anatomy, Physiology and occlusion, sixth Edition, W.B. Saunders company, Philadelphia.
3. Petter. L. Williams Gray's anatomy, 38th Edition, London, ELBS with Churchill Livingstone 1995.

### III YEAR B.D.S

## PAPER 1: GENERAL MEDICINE

#### INTRODUCTION:

Aims of Medicine

Definition of diagnosis, prognosis and treatment.

History taking and physical examination of a Medical case.

Medical emergencies in dental practice.

#### G.I. Disorders:

Stomatitis, glosaitis, gastritis.

Diarrhoea, Amobiasia, Ascites, malabsorption syndrome.

#### Liver:

Jaundice, Viral hepatitis, cirrhosis liver. Tender hepatomegaly.

#### Cardiovascular system:

Congenital heart disease, classification

Rheumatic heart disease

Subacute bacterial endocarditis.

Congestive heart failure.

Left ventricular failure.

Hypertension.

Coronary artery disease.

#### Respiratory System:

Pneumonia, Bronchitis, Emphysema, Lung, Abscess,

Eosinophilia, Pulmonary Embolism, Pulmonary

Tuberculosis, Respiratory failure.

#### Renal Diseases:

Hepatitis, Nephrotic Syndrome.

#### Hematology:

Anaemia, Coagulation defects, Bleeding disorders. Agranulocytosis, Leukaemia, Oral manifestations of hematological disorders, Lymphadenopathy and splenomegaly.

#### Central Nervous System:

Meningitis, Facial Palsy, facial pain Epilepsy. Headache, Syncope.



**Nutritional and Metabolic:**

Balanced diet: Normal daily  
Protein caloric malnutrition requirements  
Avitaminosis.  
Diabetes mellitus  
Calcium homestasis.

**Endocrine Disorders:**

Throid - Hype and hyper pituitary:  
Hypo and hyper parathyroid.

**Infections:**

Enteric fever  
Humps  
Viral exanthemate  
Diphtheria  
Syphilis  
Gonorrhaeo

**Miscellaneous :**

Allergy  
Drug reactions  
Drug interactions  
Evaluation of a case for general anaesthesia

Lectures	-	40	130 hours.
Clinicals	-	90	

**LIST OF BOOKS RECOMMENDED FOR READING AND REFERENCE**

1. Edward christopher R.W. Davidson's Principles & practice of Medicine 16th Ed. ELBS 1991.
  2. Swash Michael, Hutchison's clinical methods 20th Ed. ELBS 1995.
  3. Wilson Tean, D. Harrison Principles of Internal Medicine 12th Ed., Vol.I & II, Mcgrar Hill Inc. 1991.
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### III B.D.S.

## PAPER 2: GENERAL SURGERY

1. Introduction to surgery, surgery especially related to Oro-dental Surgery, Classification of disease.
2. Inflammation, Soft-tissue, hard tissue - causes, varieties, sequelae and treatment.
3. Infections - Acute and Chronic Abscess, Carbuncle, Sinus, Fistula, Ulceration, Gangrene, Cellulitis, Erysipelas, Septicaemia, Pyaemia, Toxaemia, Cancrum Oris, Tuberculosis, Syphilis, Gonorrhoea, Actinomycosis, Anthrax, Tetanus
4. Wounds - Complications, Treatment, Repairs Asepsis and Antiseptic Measures and procedure with particular reference to the Oral cavity. Haemorrhage and its treatment Haemophilia, Syncope, Shock, Collapse, Head Injury - Introduction.
5. Cysts and new growths - Their general consideration with special reference to those occurring in the Buccal Cavity.
6. Disease of the Lymphatic glands, especially of the neck.
7. Outline of diseases of the mouth, lips, tongue, palate, tonsils and salivary glands.
8. Infections and diseases of the Larynx, Tracheostomy.
9. Nervous system - Injury to Facial nerves, Paralysis trigeminal Neuralgia.
10. Principles of surgical treatment, diathermy and radium treatment.
11. Fracture - General principles of treatment, Diathermy and healing.
12. Cleft lip and cleft palate.
13. Thyroid and Parathyroid.
14. Swellings and Jaws.
  - i. Case sheet writing and Demonstration.
  - ii. Ward procedure, including wound dressing.

Lectures	-	40 hours	Total 130 hours.
Clinics	-	90 hours	

### LIST OF BOOKS RECOMMENDED FOR READING AND REFERENCE

- 1) Charles V. Mann, Barley & Love's short practice of surgery, Twenty Second Edition ELBS with Chapman's Hall 1995.
- 2) S.Das, A Manual on Clinical Surgery Fourth Edition S. Das. Calcutta 1996.



### III YEAR B.D.S

#### PAPER 3: ORAL PATHOLOGY AND MICROBIOLOGY

1. Aims and objectives
2. Development disturbances of dental, oral and Para-oral structures, including hereditary disorders.
3. Dental Caries.
4. Pulpal and periapical pathosis and their sequelae.
5. Environmental lesions of the oral and para-oral structure.
6. Defence mechanism of oral tissues and healing following injuries.
7. Disease of periodontal ligament, gingivae and cementum.
8. Effects of nutritional disturbances and normal disorders on the oral and para-oral structures.
9. Infections: Diseases of oral mucosa.
10. Bone disorders affecting jaws.
11. Cysts of oral cavity.
12. Pre-Cancerous lesions - etiology and pathology.
13. Neoplasms of oral cavity.
14. Diseases of salivary and lymph glands.
15. Diseases of Temporomandibular joints.
16. Diseases of Nerves, skin, blood and their implications to oral tissues.
17. Effects of radiation on oral and para-oral tissues.
18. Oral Microbiology.

#### PRACTICALS

1. Identification of hard and soft tissue specimens.
2. Identification of histopathological and microbiological
3. Biopsy and exfoliative cytology techniques.

Lectures	...	50 hours	140 hours
Practicals	...	90 hours	

## ORAL PATHOLOGY

1. Shafer William G. : A Text Book of Oral Pathology  
4th ed. Prism Book Pvt. Ltd., 1993
2. Bhaskar S.N. : Synopsis of Oral Pathology 7th ed.  
CBS Publishers & Distributors 1986.
3. Walter J.B. : Walter Hamilton and Israel's Principles  
of Pathology for Dental students  
5th ed. Churchill Livingstone 1992
4. Regizi Joseph A. : Oral Pathology; Clinical Pathologic cor-relation  
2nd ed. W.NB. Saunders Company 1989



# **FINAL B.D.S. - PART I**

## **PAPER 1: ORAL MEDICINE AND RADIOLOGY**

### **ORAL MEDICINE:**

1. Scope and importance of the subject.
2. Methods of diagnosis including special investigations.
3. Acute infections of oral and para-oral structures.
4. Blood dyscrasias and their management.
5. Management of Cardiac patient in dentistry.
6. Metabolic and Endocrine disturbances, their oral manifestations.
7. Nutritional deficiencies, and their significance in dentistry.
8. Oral sopsis and its effect on general system.
9. Disfunctions of Tempero - mandibular joints.
10. Cervico-facial lymphadenopathy.
11. Diseases of salivary glands.
12. Facial pain.
13. Cysts and tumours of the oral cavity.
14. Oral manifestations of dermatological and other systemic disturbances.
15. Special investigations.
16. Immune concepts of oral lesions.
17. Forensic odontology.

### **ROENTGENOLOGY**

1. Physics of radiation-production and properties of X-rays.
2. Principles of X-ray techniques and factors for Radiography and Fluoroscopy.
3. Technique of intra-oral and extra-oral Radiography and normal anatomical land mark.
4. Radiological interpretation of abnormal dental and jaw conditions.
5. Elements of Radiation treatment in oral and facial conditions and their sequelae.
6. Contrast radiography and recent advances in Dental - Radiology including radioactive traces.

## **ORAL MEDICINE AND RADIOLOGY**

### **LIST OF BOOKS RECOMMENDED FOR READING AND REFERENCE**

- 1) Edward V Zegarelli, Disease of the mouth and jaws. Second Edition, Philadelphia Lea & Febigga 1978.
- 2) Malcolm. A. Lynch, Burkets Oral Medicine Diagnosis and treatment, 8th Ed. Philadelphia J.P. Lippincott company 1984.
- 3) Paul W. Goaz & Stuart C. White, Oral Radiology; Principles and Interpretation 3rd ed Mosby 1994.
- 4) LeRoy M. Ennis, Dental Roentgenology, 6th Edition, Philadelphia Lea & Febiger.



# **FINAL B.D.S. PART - I**

## **PAPER - 2 : ORTHODONTICS**

1. Definition, aims, objectives, and scope of orthodontics
2. Growth and development of jaws, teeth, face and skull and establishment of normal occlusion.
3. Genetic as applied to Orthodontics
4. Normal occlusion and its characteristics, Factors responsible for establishment and maintenance of normal occlusion.
5. Malocclusion - type & Different classification.
6. Actiology and malocclusion
7. History taking and examination of patient and case analysis and differential diagnosis including cephalometrics and treatment planning.
8. a) Proventive and interceptive treatment of malocclusion.  
b) Extraction in Orthodontics.
9. Appliances used in Orthodontics treatment - adequate knowledge of  
a) Removable appliances, mechanical appliances and functional appliances and  
b) Elementary knowledge of fixed appliances.
10. Tissue change incident to Orthodontics treatment
11. Retention after treatment and relapse
12. Materials used in Orthodontics
13. Habit breaking appliances.

### **LIST OF BOOKS RECOMMENDED FOR READING AND REFERENCE**

- |    |                                 |   |  |
|----|---------------------------------|---|--|
| 1. | William R. Profit               | : | Contemporary Orthodontics<br>2nd ed Mosby year Book 1993   |
| 2. | Graber T.M.                     | : | Orthodontics Principles and practices<br>3rd ed W.B. Saunders Company 1992                                       |
| 3. | C. Philip Adams                 | : | The Design, Construction and use of<br>removable Orthodontic Appliances 6th ed<br>Varghese Publishing House 1993 |
| 4. | T.C. White and<br>J.H. Gardiner | : | Orthodontics for Dental Students 3rd ed<br>Macmillan Indian Ltd., 1976   |
| 5. | Moyers Robert E.                | : | Hand Book or Orthodontics 4th ed.<br>Year Book Medical Publishers 1988   |

# FINAL BDS - PART I

## PAPER 3: PEDODONTICS

- I. Introduction, definition, scope and importance of pedodontics.
- II. Growth and Development of Dental and Oral Facial Structures and normal occlusion. Development anomalies.
- III. Morphology of Dentitions and its application
  - a) Applied Morphology and Histology of deciduary and permanent teeth.
  - b) - Importance of first permanent molar.
- IV. Fundamentals of Dental Health.  
Biological factors responsible for maintenance of Dental and Oral Health.
- V. Contributory local factors affecting oral health-plaque etc.
- VI. Child psychology and management of child patient.
- VII. Examination, Diagnosis, and treatment planning.
- VIII. Clinical Pedodontics.

Set up of Pedodontic clinic

Teething disorders

Developmental Anomalies

Dental caries in children

Restorative dentistry

Pulp Therapy and Endodontics.

5 space Maintainers

Treatment of traumatized teeth arrangement of problems of the primary and mixed dentition period.

Gingival disorders in children.

Stomatological conditions in children.

Management of handicapped children.

Mouth habits and their managements.

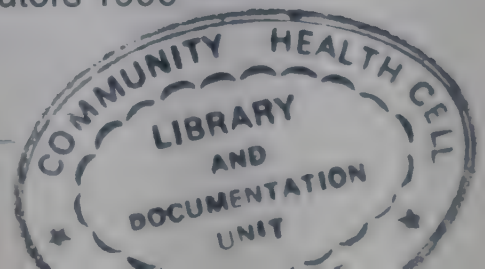
Lectures - 40 hours

Practicals & Clinical - 150 hours

Total 190 hours

### LIST OF BOOKS RECOMMENDED FOR READING AND REFERENCE

1. Ralph E McDonald : Dentistry for the Child and Adolescent 5th ed  
the C.V. Mosby Company 1988
2. Finn. Sidney B. : Clinical Pedodontics 4th ed.  
W.B. Saunders Company 1995
3. Braham. Raymond L. Text Book of Pediatric Dentistry 2nd ed.  
CBS Publishers & Distributors 1990





# **FINAL B.D.S. - PART 1**

## **PAPER 4: COMMUNITY DENTISTRY**

### **1. BIOSTATISTICS**

Introduction and General Principles of Biostatistics, Statistical procedures.

### **2. PSYCHOLOGY**

Introduction, Psychological development from birth to adolescence, Management of child in the dental office-parent counselling in respect of dental health and hygiene of the child.

### **3. PUBLIC HEALTH.**

Concept and philosophy of public health, Public Health in India.

General Epidemiology, Health Education, environmental health, disposal of wastes, water: norms for portability, purification.

### **4. PREVENTIVE DENTISTRY:**

Prevention, levels of prevention, various measures in the prevention of dental and oral diseases at individual and mass level.

### **5. PUBLIC HEALTH DENTISTRY:**

Introduction, definition, objectives functions of public health dentist, procedural steps in dental public health, indices for dental diseases, surveying and evaluation; epidemiology of dental caries, periodontal diseases, oral cancer. Utilisation of dental manpower, payment for dental care, public dental health programme. School Dental health programme. Dental Health services at State and Center. Private practice administration, ethics, Dental Council and Association.

### **6. SOCIAL SCIENCES :**

As applied to health, social structure concepts, groups, social institutions, urban and rural societies, their concept of health. Application of sociology in health programme, social environment.

Culture Anthropology objective, different aspects of Folk: medicine, and popular medicine. Cultural pattern and complexes, taboos, as related to health.

### **FIELD PROGRAMME :**

1. In Rural areas to conduct survey of Dental diseases, provide dental health education, emergency treatment.
2. School - Health Programme, Dental care for school children and preventive programme - topical fluoride application and oral hygiene demonstrations.

Lectures .... 30 hours.

## LIST OF BOOKS RECOMMENDED FOR READING AND REFERENCE

Sl.No.	Title of the book	Author	Remarks
1.	Principles of Dental Public Health. 1979 Edition.	J.M.Dunning.	-
2.	Community Dentistry.	Clifford Dummet.	-
3.	Dental Public Health.	Jodffery Black.	-
4.	Dentist, his practice & Community.	Young & Striffler.	-
5.	Preventive Dentistry.	Muller & Hine.	-
6.	Preventive Medicine & Public Health.	Sparks.	-
8.	Flouride & Dental Fluorsis.	Myers.	-
9.	Preventive Dentistry.	Forrest J.O,	-
10.	Preventive Medicine for the Doctor in his community.	Leavell and clark.	-
11.	Better Health through Preventive Dentistry & Nitrition.	Billingsh M.L.	-



## **FINAL B.D.S. - PART II**

### **PAPER 5: PROSTHODONTICS AND CROWN & BRIDGE**

#### **A. COMPLETE DENTURES**

1. Introduction & scope.
2. Applied anatomy.
3. Examination, diagnosis, treatment planning and desiduary prognosis.
4. Principles of retention & stability.
5. Principles and techniques of impression making.
6. Preparation of casts, trays and temporary denture-bases.
7. Jaw-relations and methods of registration.
8. Artificial teeth their selection and arrangements and esthetics.
9. Articulators and face bows.
10. Occlusion and articulation in complete denture.
11. Trying in of complete dentures.
12. Processing and finishing of dentures.
13. Correction of occlusal discrepancies.
14. Delivery and adjustments of complete dentures.
15. Sequelae of ill-fitting dentures.
16. Repair, rebasing and relining.
17. Immediate dentures.
18. Implant dentures.

#### **B. REMOVABLE PARTIAL DENTURES**

1. Introduction and scope.
2. Classifications.
3. Examination, diagnosis and treatment planning.
4. Components of removable partial dentures & their function.
5. Surveyors.
6. Mouth preparations for partial dentures.
7. Impression procedures.
8. Designs of removable partial dentures associated problems
9. Fabrication of cast metal frame work.
10. Jaw relation record.
11. Selection and arrangement of teeth.
12. Acrylic Partial denture.

13. Trying in of partial dentures.
14. Processing, finishing, delivery and maintenance of partial dentures.
15. Immediate partial dentures.

### **C. ELEMENTS OF CROWN AND BRIDGE PROSTHESIS:**

1. Introduction Definitions.
2. Indication and contra-indications.
3. Examination, diagnosis & treatment planning.
4. Selection and choice of abutment teeth.
5. Principles of tooth reduction.
6. Indications, contra indications, and procedures of preparation of abutment teeth for receiving various types of retainers.
7. Temporary protections of a prepared tooth.
8. Gingival retractions and impression procedures.
9. Construction of dies and working models, direct and indirect technique.
10. Technique of fabrication of retainers.
11. Selection & fabrication of pontics.
12. Connectors, stress, breakers and assembly of fixed bridges.
13. Finishing, cementing and maintenance of crown and bridge.

### **D. .... PROSTHESIS:**

1. Splints.
  2. Obturators.
  3. Carriers
- |                      |   |  |
|----------------------|---|--|
| Lectures             | - | 80 plus 20 = 100 hours.                  |
| Practicals/Clinicals | - | 360 (Techniques) plus<br>540 (Clinicals) |
| Total                | - | 1000 hours.                              |

### **LIST OF BOOKS RECOMMENDED FOR READING AND REFERENCE**

1. George A Zarb : Bouchers Prosthodontic treatment for edentulous patients Mosby 1997
2. Grant Alam A : Complete Prosthodontics: Problems, Diagnosis and Management Mosby 1994
3. Hearwell Charless M : Syllabus of Complete Dentures 4th ed Varghese Publishing House 1981
4. Fenn H.R.B. : Clinical Dental Prosthetics 2nd ed CBS Publishing and distributors 1986



5. Winkler Sheldon : Essentials of complete Denture Prosthoentics  
2nd ed Ishigaku Euro America Inc. 1996

### **REMOVABLE PARTIAL DENTURES**

1. Mcgivney Glen P : Mc- Cracken's Removable partial Prothodontics  
9th ed Mosby 1995
2. Grasso Joseph E & Miller Ernest L : Removeable Partial Prosthodontics 3rd ed Mosby  
Year book 1991
3. Renner Robert P : Removable Partial Dentures Quintessence  
Publishing Company 1987
4. Osborne John : Partial Dentures 4th ed CBS Publishers &  
Distributors 1985
5. Stewart Kenneth L : Clinical Removable Partial Prosthodontics 2nd ed  
Ishiyaku Euro America Inc. 1997

### **ELEMENTS OF CROWN AND BRIDGE PROSTHESIS**

1. Howe Leslie C. : Inlays, Crowns and Bridges  
A Clinical Hand Book wright 1993
2. Berned. G.N. Smith : Dental Crowns and Bridges :  
Design Preparation Mosby Year Book Medical  
Publishers 1986

### **Fixed Prothodontics**

1. William F.P. Malone : Tylman's Theory & Practise of Fixed Prosthodontics  
8th ed Ishiyaku Euro America inc 1989
2. Rosenstiel Stephen F : Contemporary Fixed prosthodontics 2nd ed  
Mosby 1995.

## **FINAL B.D.S. - PART II**

### **PAPER 6: FINAL YEAR CONSERVATIVE DENTISTRY INCLUDING ENDODONTICS**

#### **Lectures:**

Definition and scope.

Oral hygiene in relation to conservative dentistry.

Instruments - Nomenclature design and formulae, care and sterilisation.

Examination diagnosis and treatment planning.

Charting and recording of cases.

Cavities classification and nomenclature.

Choice of filling materials.

Principles of cavity preparation control of pain prevention of damage to hard and soft tissues during operative procedures.

Methods employed for exclusion of saliva.

Bio-Mechanics of cavity design and restoration with filling materials.

Filling materials. Pulp and soft tissue protection

Airrotors and high speed equipment.

Cavity preparation for various types of restorations including inlays and onlays Matrices.

Drugs used in conservative Dentistry.

Fractured teeth and their treatment.

Sensitive dentine, its treatment

Ceramics in Conservative Dentistry.

#### **Endodontics:**

Rationale of endodontic therapy.

Diagnostic aids in Endodontics.

Care and sterilisation of instruments for endodontics.

Treatment of vital and non vital pulp.

Tests for sterility of the root canal.



## **LIST OF BOOKS RECOMMENDED FOR READING AND REFERENCE**

- 1) A.D. Brack, G.V. Black's, Operative Dentistry Vol. II 9th Ed. U.S. A. Mosby 1995.
- 2) H. Williams Gillmore, Operative Dentistry, 4th Ed. USA, C.V. Mosby Company 1967.
- 3) H. William Gillmore, Operative Dentistry, U.S.A. C.V. Mosby Company - 1982.
- 4) Clifford M Sturdenant, the art the science of operative Dentistry, 2nd Ed. U.S.A. C.V. Mosby Company 1985.
- 5) H.M. Pickard, A Manual of Operative Dentistry 5th Ed, Oxford - Oxford University press - 1983.
- 6) Lousis I Grossman, Endodontic practice 11th Ed. Philadelphia Lea & Febiger - 1988.

### **OPERATIVE DENTISTRY**

- 1) Clifford M. Sturd Ewant, The Art and Science of Operative Dentistry Third Edision, Mosby 1995.
- 2) H. William Gillmore, Operative Dentistry Fourth Editions, B.I. Publication Pvt. Ltd. New Delhi 1990.

### **ENDODONTICS**

- 1) Lousis Grossman, Endodontics practice Eleventh Edision, Varghese Publication 1998.

## **FINAL B.D.S. - PART II**

### **PAPER 7: ORAL SURGERY**

#### **LOCAL ANAESTHESIA :-**

1. Introduction
2. Properties of an ideal local anaesthetic drug.
3. Properties of common local anaesthetic drugs in use.
4. Choice of anaesthesia, local or general anaesthesia.
5. Indications and Contra-indications, advantages and disadvantages of local anaesthesia.
6. Components of a standard local anaesthetic solution and the part played by each component.
7. How does local anaesthetic acts.
8. Pre-anaesthetic medication.
9. Technique of infiltration anaesthesia, Nerve block anaesthesia. Symptoms and Signs of anaesthesia.
10. Complications associated with local anaesthesia and their management.

#### **GENERAL ANAESTHESIA :-**

1. Properties of general anaesthetic drugs commonly used.
2. Pre-anaesthetic preparation of a patient and pre-medication.
3. Evaluation of a patient for general anaesthesia.
4. Short anaesthesia in a Dental Chair, Endotracheal - anaesthesia. Intravenous anaesthesia.
5. Symptoms and Signs of general anaesthesia.
6. Complications arising during the administration of general anaesthesia and their management.

#### **EXODONTIA :-**

1. Objectives.
2. Indications for tooth extraction.
3. Pre-operative assessment.
4. Forceps extraction.
5. 'Surgical extraction' (Trans-alveolar extraction).
6. Extraction technique under general anaesthesia in the Dental Chair.
7. Complications of tooth extraction and their management.



## ORAL SURGERY :-

1. Definition and Scope.
2. Diagnosis in Oral Surgery:
  - a) History taking
  - (b) Clinical examination
  - (c) Special investigations.
3. Importance of general condition of the patient in relation to Oral Surgery.
4. Treatment planning.
5. Sterilization.
6. Use of antibiotics in oral surgery.
7. Diagnosis Pre-operative assessment and treatment of impacted teeth.
8. Pre-Prosthetic Surgery.
9. Surgical aid, to Orthodontics.
10. Pre-facial infections, their diagnosis and treatment.
11. Inflammatory diseases of jaw bone and their management.
12. Diagnosis and management of Cysts of Oral Cavity.
13. Diagnosis and treatment of the fracture of the mandible.
14. General outline of the fracture of the middle-third of the facial skeleton.
15. Diagnosis and treatment of Benign neoplastic lesions of the Oral Cavity (Odontogenic and non-odontogenic).
16. Surgical procedure in relation to endodontic therapy (Apicectomy).
17. Surgical treatment of tumour like lesions of the oral cavity including odontome.
18. Diseases of maxillary sinus, with special reference to Oro-antral fistula.
19. Management of haemorrhage in oral surgery.
20. Disease of salivary glands, Diagnosis treatment of salivary Calculi and neoplasms arising from minor salivary glands.
21. Surgical aspect of histopathological diagnosis.
22. Oral surgical complication and their management.
23. Diagnosis of malignant condition of Oral Cavity, a broad outline about the different methods of treatment.
24. Diseases of temporomandibular joints, such as arthritis, hypoplasia, subluxation, dislocation, ankylosis. Other causes of inability to open the mouth.
25. Affection of trigeminal and facial nerves.

**Lectures :-**

Anasthesis (Local and general)	..	10 hours.
Exodontia	...	10 hours.
Oral Surgery	...	40 hours.
Total	...	<hr/> 60 hours.
Clinical	...	220 hours.
Total Practical & Clinical hours	...	<hr/> <hr/> 280 hours.

**LIST OF BOOKS RECOMMENDED FOR READING AND REFERENCE**

- 1) Daniel M Laskin, Oral & Maxillofacial surgery Vol. I & II St. Lom's C.V. Mosboy co., 1980.
- 2) Gustav O Kruger T.B. of Oral & Maxillofacial surgery 6th Ed., St Louis, C.V. Mosboy 1984.
- 3) Mervyu Shear, Cysts of te Oral region briston John wrighd & sons 1976.
- 4) Georffery L Howe. extraction of teeth Briston wright 1985.
- 5) W. Harry Archer, Oral and Maxillofacial Surgery 5th Ed. - Vol. I & II, Phyladephia, W.B. Saunders company 1975.



## **FINAL B.D.S. - PART II**

### **PAPER 8: PERIODONTICS**

1. Introduction :- Scope and applicability of the subject. Historical background of Periodontology.
2. Maintenance of Health - Role and scope of Oral Physiotherapy measures, patient education-programme and periodic check.
3. Classification of gingival and periodontal disturbances.
4. Gingival enlargement.
5. Infective muco-gingival conditions - specific and non-specific.
6. Degenerative conditions - Gingivitis and Periodontitis.
7. Atrophic conditions affecting gingival and periodontal tissues.
8. Local systemic factors in the causation of gingival and periodontal lesions.
9. Periodontitis and sequelae.
10. Malocclusion, Mal-alignment and traumatic occlusion Bruxism and Temporomandibular joint disturbances. Occlusal equilibration.
11. Diagnosis and diagnostic aids including roentgenography and its uses and limitations.
12. Prognosis.
13. Morphological defects of the muco-gingival structures influencing periodontium and their treatment.
14. Treatment of all gingival and periodontal disturbances.  
Treatment planning, phases and rationale.  
Different available therapeutic procedures.  
Healing Mechanism.
15. Role of Nutrition in aetiology and treatment.
16. Drugs in Periodontics.
17. Instrumentation.
18. Splints.
19. Preventive periodontics, concept of focal infection.
20. Materials used in periodontia.

## CLINICALS

Varied approaches towards plaque control.

Treatment of the sufficient number of cases of scaling and root planning.

Approach, examination diagnosis (including differential/ diagnosis) and analysis of Periodontal and other cases - clinically.

Treatment planning including surgical treatment and execution of the same.

Occlusal equilibration.

Lectures	....	45 hours.
Practical/Clinicals	....	205 hours.

## LIST OF BOOKS RECOMMENDED FOR READING AND REFERENCE

- 1) Fermin A Carrauze Glickman's Clinical periodontology Seventh Edition. Philadelphia, W.B. Saunders company 1990.
- 2) Frank. E. Benbe, Periodontology - Diagnosis and treatment Newyourk. The Mac Millan company 1953.
- 3) John F. Prichard. Advanced Periodont disease/Surgical and Presthetic management. Philadelphia. W.B. Saunder's Company 1972.
- 4) Balint Orban. Periodontics - A concept - theory and practice St. Leuis The C.V. Mosby Company 1958.
- 5) Henry M. Goldman, Periodontal Therapy, Sixth Edition, St. Louis. The C.V. Mosby Company 1980.
- 6) A Bryan Wade, Basic Periodontology Second Edition Bristol: John Wright & sons Ltd. 1965.
- 7) Torquil Macphee, Essentials of Periodontology and Periodontics Third Edition Oxford - Blackwell scientific Publications - 1981.
- 8) Sidney Sorbin, The practice of Periodontia, Newyourk Mac. Grawhill company.











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